

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An ink jet type recording apparatus comprising:

a cartridge holder capable of removably attaching an ink cartridge;

a recording head for receiving a supply of ink from the ink cartridge attached to the cartridge holder and discharging ink droplets based on print control data, thereby printing an image on a recording medium, wherein:

in case in which the ink cartridge is attached to the cartridge holder, it is decided whether or not an ink type information to be used in the recording apparatus has already been set, and

in case in which it is decided that the ink type information has not yet been set, the ink type information is set so that type of ink accommodated in the attached ink cartridge can be used.

2. (Original) The ink jet type recording apparatus according to claim 1, wherein the ink cartridge to be used in the recording apparatus includes an identifying system indicative of the type of ink accommodated in the ink cartridge, and the recording apparatus to which the ink

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cartridge is to be attached includes an information obtaining system capable of obtaining ink type information from the identifying system.

3. (Original) The ink jet type recording apparatus according to claim 2, wherein the ink cartridge includes a semiconductor storage system, storing information indicative of the ink type, as the identifying system, and the recording apparatus, to which the ink cartridge is to be attached, includes, as the information obtaining system, an information reading system capable of reading the ink type information from the semiconductor storage system.

4. (Currently Amended) The ink jet type recording apparatus according to any of claims 1 to 3, further comprising:

a matching deciding system for deciding whether or not a matching is available between set the ink type information that has been set and ink type information obtained from a newly attached ink cartridge in a case in which the ink type information has already been set,

wherein operation of the recording apparatus is inhibited if the matching deciding system decides that the matching is unavailable.

5. (Currently Amended) The ink jet type recording apparatus according to any of claims 1 to 3, further comprising:

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a matching deciding system for deciding whether or not a matching is available between
set ink type information that has been set and ink type information obtained from a newly
attached ink cartridge in case in which the ink type information has already been set,

wherein an alarm is ~~given~~ activated if the matching deciding system decides that the
matching is unavailable.

6. (Currently Amended) The ink jet type recording apparatus according to any of claims
1 to 3, wherein an operation sequence is set for the recording apparatus corresponding to ~~set~~ the
ink type information that has been set ~~is set~~.

7. (Currently Amended) The ink jet type recording apparatus according to any of claims
1 to 3, wherein a driving condition is set for a recording head corresponding to ~~set~~ the ink type
information that has been set ~~is set~~.

8. (Currently Amended) The ink jet type recording apparatus according to any of claims
1 to 3, wherein an image processing method is set corresponding to ~~set~~ the ink type information
that has been set ~~is set~~.

9. (Original) The ink jet type recording apparatus according to any of claims 1 to 3,
wherein only when the recoding apparatus obtains ink type setting permission information from
the ink cartridge attached to the recording apparatus, the ink type information is set.

10. (Original) The ink jet type recording apparatus according to claim 9, wherein the ink
type setting permission information is stored in the semiconductor storage system mounted on
the ink cartridge, and the ink type setting permission information is inhibited from being read
from the semiconductor storage system or is erased from the semiconductor storage system in
response to a command sent from the recording apparatus after the recording apparatus once
reads the ink type setting permission information.

11. (Original) A method of setting ink type information in an ink jet type recording
apparatus comprising a cartridge holder capable of removably attaching ink cartridges and a
recording head for receiving supply of ink from the ink cartridges attached to the cartridge holder
and discharging ink droplets based on print control data, thereby printing an image on a
recording medium, comprising:

an ink type information obtaining step of obtaining ink type information from each of the
ink cartridges attached to the cartridge holder;

an ink type information comparing step of deciding whether or not all the ink type
information obtained at the ink type information acquiring step are identical;

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a setting ascertaining step of ascertaining whether or not ink type information about ink to be used in the recording apparatus has already been set; and

an ink type information setting step of setting ink corresponding to the obtained ink type information as ink that can be used in the recording apparatus, if it is decided that the ink type information has not yet set at the setting ascertaining step and it is decided that all the ink type information sent from the ink cartridges are identical at the ink type information comparing step.

12. (Original) The method of setting ink type information in an ink jet type recording apparatus according to claim 11, wherein an attachment state deciding step of deciding whether or not all the ink cartridges are attached to the cartridge holder is executed before execution of the ink type information obtaining step, and the ink type information obtaining step is executed if it is decided that all the ink cartridges are attached at the attachment state deciding step.

13. (Original) The method of setting ink type information in an ink jet type recording apparatus according to claim 11 or 12, wherein the ink type information setting step is executed only when it is decided that the ink type has not yet set at the setting ascertaining step and ink type setting permission information is obtained from the attached ink cartridge.

14-17. (Canceled)

18. (Currently Amended) A recording apparatus comprising:

an ink cartridge holder adapted to removably attach ink cartridges thereto to communicate with the ink cartridges for data transfer to and from the ink cartridges;

a recording head mounted on the ink cartridge holder;

a CPU operatively connected to the recording head and communicating with the holder;

a printer memory that stores therein an operation sequence condition, a recording head driving condition and an image processing condition, each being stored ~~in an ink type~~ by an ink type basis, the printer memory having a memory area into which a specific one of ink types, to be used in the recording apparatus can be written, and the printer memory storing therein a program to be executed for writing the specific ink type when all of the ~~attached~~ ink cartridges contain ink of the same ink type, and when the specific one of ink type types has not yet been written in the printer memory, and for selecting the operation sequence condition, recording head driving condition and image processing condition corresponding to the ~~written~~ specific ink type.

19. (Currently Amended) An ink cartridge comprising:

an ink container containing ink therein;

an ink cartridge memory storing therein ink type information indicative of a type of the ink, and ink type setting permission information specifying that the ink cartridge ~~constitutes~~ is an ink cartridge for set up, wherein the ink type setting permission information is written in a

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memory area of the ink cartridge memory, from which the ink type setting permission information is inhibited from being read again or is erased once the ink type setting permission information is read and the ink cartridge is used as the set-up ink cartridge.

20. (Currently Amended) A memory medium storing therein a program having instructions to be executed for performing a method, the method comprising:

~~for~~ writing a specific ink type into a memory area of a printer memory when all ~~of~~ ink cartridges attached to a printer contain ink of the same ink type; and when the specific ink type has not yet been written in the memory area of the printer memory, and

~~for~~ selecting an operation sequence condition, a recording head driving condition and an image processing condition corresponding to the ~~written~~ specific ink type.
